

Message Text

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SUBJECT: IAEA PROGRAM FOR 1979-1984 AND BUDGET FOR
1979 - INSTRUCTIONS FOR A&B COMMITTEE MEETING,
MAY 3, 1978

REF: VIENNA 03890

1. SUMMARY. FOLLOWING ARE DETAILED PROGRAMMATIC COMMENTS
ON IAEA'S PROPOSED PROGRAM FOR 1979-84 AND BUDGET ESTI-
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MATES FOR 1979 CONTAINED IN GOV/1885. ACTIVITIES ON
WHICH THERE ARE NO COMMENTS RECEIVED GENERAL APPROVAL IN
USG AGENCIES' REVIEW AT PROPOSED BUDGET LEVELS. MISSION
MAY DRAW ON THESE COMMENTS AT MAY 3 MEETING A AND B
COMMITTEE AND ALSO BRING THEM TO ATTENTION OF APPROPRIATE
IAEA STAFF. COMMENTS ARE KEYED TO PARAGRAPHS IN
INTRODUCTION OR IN BODY OF DOCUMENT. END SUMMARY.

2. INTRODUCTION

(4.) CONTINUING EFFORTS IN THE FORECASTING OF DEMAND AND SUPPLY OF NUCLEAR POWER AND RELATED FUEL CYCLE SERVICES IS IMPORTANT AND WE ENDORSE THE PLANNED EFFORT TO

CONTINUALLY UPDATE SUCH INFORMATION ON NATIONAL PROGRAMS. HOWEVER, WE NOTE THAT THE PROGRAM IS CONTINUING WITH AN EMPHASIS SHIFT FROM ADVICE ON NEEDS AND PLANNING TO A MORE PROJECT ORIENTED APPROACH. WE BELIEVE THAT IN GENERAL, ESPECIALLY FOR THE UNDER DEVELOPED NATIONS, AND TO A LESSER DEGREE FOR ADVANCED NATIONS, THE IAEA SHOULD CONTINUE A STRONG FOCUS ON PROVIDING ADVICE RELATED TO NATIONAL PLANS RATHER THAN CONTRIBUTING TO SPECIFIC PROJECTS. WE THINK THAT THIS APPROACH WOULD BE MUCH MORE CONSISTENT WITH U.S. POSITION ON ESTABLISHMENT OF REALISTIC NUCLEAR POWER NEEDS AND PROPER ASSESSMENT OF PROLIFERATION PROBLEMS. WE QUESTION WHETHER ANOTHER SALZBURG-TYPE CONFERENCE IS NEEDED AS EARLY AS 1981.

(6.) WE AGREE WITH THE ACTIVITIES OUTLINED IN THIS ITEM WHICH ARE PLANNED TO BRING THE AGENCY'S STANDARDS, GUIDES AND CODES INTO AGREEMENT WITH ICRP AND WILL INCLUDE BOTH WASTE MANAGEMENT AND NUCLEAR FUEL CYCLE FACILITIES AS WELL AS REACTORS.

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3. TECHNICAL ASSISTANCE AND TRAINING

INTRODUCTION, PARA 3. TRAINING FOR TECHNICAL ASSISTANCE LIAISON OFFICERS SHOULD BE SUPPORTED.

(A.6) WE STRONGLY SUPPORT OF PLANNED 1979 STAFF INCREASE. THIS IS CONSISTENT WITH RECOMMENDATIONS OF TA GROUP OF EXPERTS AND NECESSARY TO EFFICIENTLY AND EXPEDITIOUSLY MANAGE THE GROWING NUMBER OF UNDP AND REGULAR PROGRAM PROJECTS.

(A.16) EXPERTISE OF TECHNICAL STAFF OF THE VARIOUS DEPARTMENTS MIGHT BE BETTER USED IN THE TECHNICAL ASSISTANCE PROGRAMS IN PROVIDING ADVICE AND COUNSEL IN THE FIELD MISSIONS RATHER THAN BEING PERHAPS UNDER UTILIZED IN ORGANIZING MEETINGS AND DEVELOPING RELATED WRITTEN MATERIAL.

(A.18) AGENCY IS TO BE COMMENDED FOR EFFORTS THIS AREA TO DATE AND ENCOURAGED TO PROCEED AS PLANNED. HOWEVER, ADVANCED MEMBER STATES WITH AVAILABLE EXPERTISE MUST BE STRONGLY ENCOURAGED TO ASSIST IN THIS IMPORTANT ACTIVITY. STAFF MEMBERS OF NUCLEAR SAFETY AND ENVIRONMENTAL PROTECTION MAY BE BETTER UTILIZED.

(A.28) WE SUPPORT THE ADDITIONAL STAFF COMMENTS ON A.18 APPLY ALSO.

4. NUCLEAR POWER AND REACTORS

(B.12, 21, 24, 108, 114) IN ALL PLANNED ACTIVITIES, ADDITIONAL EMPHASIS SHOULD BE GIVEN TO CONSIDERATION OF TOTAL REPEAT TOTAL ENERGY NEEDS AND NOT REPEAT NOT THE ELECTRIC SECTOR ALONE. THE INCREASING IMPORTANCE OF ALTERNATE ENERGY SOURCES EMPHASIZES THIS NEED.
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(B.49) U.S. REP AUTHORIZED TO EXPRESS STRONG U.S. SUPPORT OF IUREP PHASE 2 ACTIVITIES. INPUT FROM INFCE WORKING GROUPS 1 AND 3 SHOULD BE FACTORED INTO URANIUM RESOURCES ASSESSMENTS. WE STRONGLY URGE OTHER MEMBERS TO PARTICIPATE IN THIS EFFORT.

(B.64) THESE ACTIVITIES SHOULD INCLUDE INPUT FROM INFCE WORKING GROUP NO. 2.

(B.89) AGENCY PROMOTION OF EXCHANGE OF INFORMATION CONCERNING ALL ASPECTS FUEL STORAGE SHOULD BE STRONGLY SUPPORTED.

(B.104) IN LIGHT OF COMMENTS IN PARA. B.101 THERE SHOULD BE A REEXAMINATION WHETHER THE 1979 MEETING WILL HAVE ANY REAL VALUE.

(B.115) IN UNDERTAKING NUCLEAR POWER PLANNING STUDIES IN MEMBER STATES, THE AGENCY SHOULD PLACE EMPHASIS ON THE REALISTIC NEEDS FOR NUCLEAR POWER AS OPPOSED TO GENERAL PROSPECTS OR NATIONAL DESIRES.

(B.193, 202, AND 207) IN ACTIVITIES RELATING TO ADVANCED REACTOR AND FUEL CYCLE CONCEPTS, THE AGENCY SHOULD INCLUDE EMPHASIS ON SAFEGUARDS AND PROLIFERATION RESISTANCE ASPECTS.

(B.166 AND 168) QUALITY ASSURANCE DESERVES INCREASING ATTENTION AND AGENCY STAFF MUST BETTER PREPARE THEMSELVES TO PROVIDE ADVICE AND COUNSEL SINCE AGENCY STRENGTH IN THIS AREA TO DATE DOES NOT APPEAR TO BE TOO STRONG.
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(B.170) REGARDING ANALYSES REFERRED TO IN SECOND SENTENCE, WE QUESTION WHETHER AGENCY HAS ADEQUATELY QUALIFIED STAFF TO UNDERTAKE THIS WORTHWHILE ACTIVITY.

(B.189) COSTING OF REACTOR HEAT IS ESSENTIAL FACTOR AND NEEDS CAREFUL STUDY.

5. NUCLEAR EXPLOSIONS FOR PEACEFUL PURPOSES

(D.4-11) WE SERIOUSLY QUESTION THE NEED FOR THREE STAFF MEMBERS ON A CONTINUING BASIS. SUBJECT TO MISSION'S DISCUSSIONS WITH OTHER MEMBERS ON THIS SUBJECT, AND TO MISSION'S ASSESSMENT OF POLITICAL IMPACT OF U.S. PROPOSING THIS REDUCTION, WE RECOMMEND THAT THE STAFF BE REDUCED TO NO MORE THAN ONE PROFESSIONAL OFFICER WHO COULD EFFECTIVELY MANAGE THE AGENCY'S ON-GOING ACTIVITIES IN THIS AREA. AS ADDITIONAL ASSISTANCE MIGHT BE REQUIRED FOR FUTURE MEETINGS, THIS TEMPORARY ASSISTANCE COULD BE PROVIDED BY OTHER STAFF MEMBERS. MISSION WILL RECALL THAT ONE PROFESSIONAL STAFF MEMBER MANAGED THIS FUNCTION FOR SEVERAL YEARS.

(D.13) WE QUESTION THE BENEFIT THAT WOULD DERIVE FROM TWO PLANNED ADVISORY GROUPS AND BELIEVE ONE MEETING WOULD BE SUFFICIENT.

6. FOOD AND AGRICULTURE

GENERAL: THE PROGRAM IS STRONGLY SUPPORTED, PARTICULARLY BECAUSE OF THE PRIORITY PROBLEMS ADDRESSED AND THE INPUT OF A FUNCTIONING RESEARCH LABORATORY. THERE SHOULD BE STRONG ENCOURAGEMENT TO FAO, IN ITS NEXT BUDGET, TO CONSIDER INCREASING ITS SUPPORT FOR THE JOINT DIVISION PROGRAM SINCE THIS PROGRAM DIRECTLY AFFECTS SO MANY HIGH-PRIORITY PROBLEM AREAS IDENTIFIED BY FAO.
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(E.12-41) OVERALL PROGRAM SHOULD BE STRONGLY SUPPORTED AND REFLECTS THE RELATIVE SEVERITY OF VARIOUS PROBLEMS ON A WORLDWIDE BASIS.

TREND IN EMPHASIS ON VARIOUS CROPPING SYSTEMS AS MEANS OF ACHIEVING MORE INTENSIVE UTILIZATION OF LAND IS SIGNIFICANT. IF POSSIBLE, SOME COLLABORATIVE STUDIES WITH IIASA ON ENERGY CONSIDERATIONS INVOLVED IN

ADOPTING THESE PRACTICES WOULD BE WORTHWHILE. SINCE ENERGY AVAILABILITY APPEARS TO BE POTENTIAL MAJOR LIMITATION TO ENHANCED CROP YIELDS IN DEVELOPING COUNTRIES, ATTENTION GIVEN TO MAXIMIZING EFFICIENCY OF ENERGY INPUTS APPEARS APPROPRIATE. THIS WOULD ALSO COVER WATER USAGE SINCE IRRIGATION IS FREQUENTLY DEPENDENT ON ENERGY FOR PUMPING SYSTEMS. AMOUNT OF FERTILIZER USED ON TREE CROPS PROBABLY IS MINIMAL AND THIS PART OF PROGRAM COULD BE QUESTIONED. PERHAPS FUNDS AVAILABLE FOR TREE CROP FERTILIZATION SHOULD BE DIRECTED TOWARD FOOD CROPS.

NITROGEN FIXATION PROGRAM MUST BE CAREFULLY COORDINATED WITH RAPID ADVANCES BEING MADE AROUND WORLD; OTHERWISE, IT COULD BECOME OUT OF TOUCH WITH MAINSTREAM. IT SHOULD YIELD POSITIVE RESULTS OVER LONG-TERM.

PROPOSED PROGRAM ON IMPROVING PASTURE MANAGEMENT IN ANIMAL PRODUCTION APPEARS TO BE MOVE IN RIGHT DIRECTION. THERE ARE NUMBER OF AREAS IN DEVELOPING WORLD WHERE ANIMAL GRAZING IS SERIOUS PROBLEM IN TERMS OF OPTIMIZING PRODUCTIVITY AND MINIMIZING SOIL EROSION. ADDITIONAL USEFUL RESEARCH RESULTS WOULD SERVE TO FEED INTO LAND
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USE POLICIES WHICH COULD BRING ABOUT BOTH OF THESE OBJECTIVES.

EMPHASIS ON CHARACTERIZING SOIL WATER REGIMES AND CONCURRENT MOVEMENT OF WATER AND IONS IS AN EXCELLENT PROGRAM AND SHOULD CONTRIBUTE TO POLLUTION CONTROL OBJECTIVES AS WELL AS PRODUCTION EFFICIENCY.

WHAT SEEMS TO BE MISSING IN PROGRAM IS IDENTIFICATION OF AN EFFORT TO INTEGRATE SUPERIOR GERMPLASM WITH SUPERIOR SOIL, FERTILIZER, AND WATER MANAGEMENT TECHNIQUES TO DRAMATICALLY INCREASE FOOD PRODUCTION IN THOSE AREAS OF THE WORLD WHERE QUANTUM INCREASES IN FOOD PRODUCTION ARE POSSIBLE.

(E.42-75) PROGRAM APPEARS BE WELL DESIGNED TO ATTACK HIGH-PRIORITY PROGRAMS.

ALTHOUGH GRAIN PROTEIN IMPROVEMENT PROGRAM SCHEDULED TO CONCLUDE IN 1978, IT SHOULD CONTINUE OR BE EXPANDED THROUGH 1982 AS SUGGESTED IN PROGRAM DOCUMENT TO REALIZE POTENTIAL OF INVESTMENT MADE TO DATE.

PROGRAM ON DISEASE AND PEST RESISTANCE IS OF MAJOR IMPORTANCE IN DEVELOPING WORLD SINCE IT IS CRUCIAL TO HAVE AS MANY OPTIONS AS POSSIBLE IN EXPANDING GERM PLASM BASE FOR DISEASE AND PEST RESISTANCE. FOCUS ON GRAIN LEGUMES IS IMPORTANT DEVELOPMENT.

GENERAL EFFORT FOR CROP IMPROVEMENT THROUGH INDUCED MUTATIONS CONTINUES PROVIDE VALUABLE INFORMATION. COORDINATED RESEARCH PROGRAMS ON RICE, GRAIN LEGUMES IN SOUTHEAST ASIA, AND MUTANT CROSSING EFFORTS NOW BEGINNING ARE ALL DESIGNED TO IMPACT ON IMPORTANT PROBLEMS IN DEVELOPING NATIONS.

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WORK ON INDUCED MUTATION TECHNOLOGY SHOULD CONTINUE AND BE STRONGLY SUPPORTED. ONE OF KEY NEEDS IN MUTATION INDUCTION WORK AS IN MORE CONVENTIONAL BREEDING TECHNIQUES IS FOR MORE EFFECTIVE SELECTION TECHNIQUES TO BE USED BY BREEDERS GENERALLY. THIS ASPECT SHOULD BE INCORPORATED AS REGULAR PART OF TECHNOLOGY DEVELOPMENT EFFORT. ATTENTION SHOULD BE GIVEN TO MUTATION TECHNIQUES INVOLVING HAPLOID PLANTS AND IN VITRO CULTURES. MORE SUPPORT SHOULD BE CONSIDERED FOR THIS PROGRAM. IN ADDITION CONSIDERATION SHOULD BE GIVEN EITHER IN THE PLANT BREEDING AND GENETICS PROGRAM OR THE CHEMICAL RESIDUES AND POLLUTION PROGRAM TO UTILIZE HIGHER PLANTS TO DETECT MUTAGEN POLLUTANTS IN THE ENVIRONMENT. IT APPEARS THAT PERHAPS A PROGRAM INVOLVING BOTH GROUPS COULD BE DEVELOPED UTILIZING THE BASIC FINDINGS OF MUTATION TECHNIQUES WITH HAPLOID PLANTS.

PROGRAMS INVOLVING GRAIN PROTEIN IMPROVEMENT BY MEANS OF NUCLEAR TECHNIQUES AND DISEASE RESISTANCE OF CROP PLANTS SHOULD YIELD VALUABLE RESULTS WITHIN REASONABLE TIME.

PROGRAM ENTITLED QUOTE CROP IMPROVEMENT THROUGH INDUCED MUTATION UNQUOTE SEEMS TO BE A CATCH-ALL TITLE. HOWEVER, COORDINATED RESEARCH PROGRAMS WITHIN THIS EFFORT ARE SUPPORTED WITH POSSIBLE EXCEPTION OF WOODY PERENNIAL PLANTS. CONSIDERATION MIGHT BE GIVEN TO DIRECTING THESE FUNDS INTO FOOD CROP PLANTS.

(E.77-97) PROPOSED COORDINATED RESEARCH PROGRAMS SUGGEST HEALTHY DEVELOPMENT IN THIS AREA. PROGRAM ON ANIMAL NUTRITION AND PHYSIOLOGY SHOULD BE SUPPORTED;

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ADDITIONAL FUNDS SHOULD BE URGENTLY SOUGHT FOR THIS POORLY FUNDED PROGRAM. ALTHOUGH IT WOULD BE EXPENSIVE AND REQUIRE ADDITIONAL FACILITIES OR CLOSE COOPERATION WITH LOCAL ANIMAL NUTRITION AND PHYSIOLOGY INSTITUTES, A LABORATORY PROGRAM WOULD YIELD SIGNIFICANT RESULTS. ALTERNATIVE IS TO ESTABLISH EXTREMELY CLOSE COOPERATION WITH ANIMAL PRODUCTION INSTITUTES SUCH AS ILCA, INCLUDING POSTING OF PERSONNEL AT THESE INTERNATIONAL CENTERS.

IT IS QUESTIONABLE WHETHER UTILIZATION OF RADIOISOTOPE METHODS IN AQUATIC ANIMAL PRODUCTION WOULD YIELD SIGNIFICANT RESULTS. THIS IS NOT TRUE WITH DISEASE RESEARCH.

PROGRAM ON ANIMAL DISEASE CONTROL AND PARASITOLOGY WITH EMPHASIS ON TICKS AND TICK-BORNE DISEASES SHOULD BE SUPPORTED. THIS PROGRAM SHOULD BE CONDUCTED IN

CLOSE COOPERATION WITH THE INTERNATIONAL CENTER FOR INSECT PHYSIOLOGY AND ECOLOGY BECAUSE OF THE TICK RESEARCH BEING CONDUCTED AT THAT INSTITUTE.

IT APPEARS FROM DESCRIPTION OF ANIMAL PRODUCTION AND HEALTH PROGRAM THAT PRODUCTION AND PROTECTION PARTS ARE SOMEWHAT INTERMINGLED. WHILE THIS WILL NECESSARILY BE CASE UNDER CERTAIN CIRCUMSTANCES, IT WOULD SEEM ADVISABLE TO CLEARLY SEPARATE THE TWO IN PROGRAM AND BUDGET DOCUMENTS. PROTECTION IS AFTER ALL, ONLY A PART OF PRODUCTION.

(E.98-125) OVERALL PROGRAM SHOULD BE STRONGLY SUPPORTED. IT IS GRATIFYING TO SEE INITIATION OF A PROGRAM ON PEST MANAGEMENT (WITH EMPHASIS ON RICE INSECTS) IN NEAR FUTURE. THIS WILL TEND TO BROADEN BASE OF INSECT AND PEST CONTROL PROGRAM AND SHOULD ATTRACT ADDITIONAL SUPPORT.

RAPID DEVELOPMENT OF A GENETIC SEXING TECHNIQUE FOR FRUIT
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FLIES IS STRONGLY URGED. SUCH TECHNIQUES CAN DRAMATICALLY REDUCE COSTS OF MASS REARING INSECTS FOR USE IN STERILE MALE TECHNIQUE PROGRAMS. DEVELOPMENT OF GENETIC SEXING TECHNIQUES HAS PROVEN SUCCESSFUL WITH OTHER DIPTERA (MOSQUITOES AND FLIES); THUS, THERE IS STRONG JUSTIFICATION FOR THIS APPROACH TO MAKING STERILE MALE TECHNIQUE LESS EXPENSIVE AND MORE EFFICIENT.

RAPID PROGRESS HAS BEEN MADE IN DEVELOPING STERILE MALE TECHNIQUE FOR TSETSE FLY ERADICATION. WE QUESTION THE TERMINATION OF THE COORDINATED RESEARCH PROGRAM ON TSETSE FLY CONTROL OR ERADICATION BY THE STERILE MALE TECHNIQUE BECAUSE OF IMPORTANCE OF TSETSE FLY TO DEVELOPMENT OF LIVESTOCK PRODUCTION IN AFRICA, THE VERY HIGH PRIORITY PLACED ON TSETSE FLY ERADICATION BY FAO AND OTHER INTERNATIONAL ORGANIZATIONS, AND EXPERTISE AVAILABLE IN THE JOINT DIVISION.

(E.126-147) THESE PROGRAMS ARE AIMED AT MINIMIZING POTENTIAL HEALTH AND ENVIRONMENTAL EFFECTS OF AGRICULTURAL ACTIVITIES AND REPRESENT ONE OF AREAS OF LEADERSHIP IN JOINT DIVISION. THEY ARE OF IMPORTANCE TO ALL DEVELOPING COUNTRIES AND SHOULD BE SUPPORTED.

IT IS UNFORTUNATE THAT SUFFICIENT RESOURCES ARE NOT AVAILABLE TO DEVELOP LABORATORY PROGRAM ON CHEMICAL RESIDUES AND POLLUTION. OVER LONG TERM IT WOULD APPEAR ADVISABLE TO INCREASE SUPPORT FOR MONITORING WATER QUALITY WITH EMPHASIS ON SIMPLE AND PRECISE TECHNIQUES WHICH COULD BE DEVELOPED AT IAEA LABORATORY. ANOTHER

PROGRAM WHICH COULD BE CONSIDERED WOULD BE DEVELOPMENT
OF A PESTICIDE RESIDUE CENTER WHICH WOULD INCLUDE BOTH
WORK WITH RADIOISOTOPE AND NONRADIOISOTOPE TECHNIQUES
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AND WHOSE MAJOR FUNCTION WOULD BE TO DEVELOP TECHNOL-
OGIES USEABLE IN DEVELOPING COUNTRIES, AS A SITE FOR
TRAINING, AND TO ASSIST IN DEVELOPING DATA REQUIRED FOR
THE CODEX ALIMENTARIUS.

(E.148-175) THIS PROGRAM HAS BEEN CRITICIZED IN PAST
AND UNDOUBTEDLY WILL CONTINUE TO BE CRITICIZED IN THE
FUTURE. IT APPEARS THAT SOME PROGRESS HAS BEEN MADE
AND THAT WHOLESOMENESS QUESTION REGARDING SPECIFIC
FOODS WHICH HAVE BEEN IRRADIATED TO EXTEND SHELF LIFE
HAVE BEEN OR ARE BEING ANSWERED. IT MIGHT BE ADVISABLE
TO PLAN AND CONDUCT TESTS TO EVALUATE PUBLIC ACCEPTANCE
OF FOOD WHICH HAS BEEN IRRADIATED TO EXTEND SHELF LIFE.

IF CARRIED OUT RIGOROUSLY, THIS PROGRAM SHOULD GIVE
CLEARER IDEA AS TO STATUS AND POTENTIAL FOR VARIOUS
FOOD IRRADIATION TECHNOLOGIES. IF FINDINGS ARE
NEGATIVE, THERE SHOULD BE PROGRAM REORIENTATION. WORK
ON WHOLESOMENESS IS OF CRITICAL IMPORTANCE IN DEMON-
STRATING ACCEPTABILITY OF RADIATION TREATED FOODS.

7. NUCLEAR SAFETY AND ENVIRONMENTAL PROTECTION

TABLES C.1 AND C.2 QUESTION HAS BEEN RAISED WHETHER THERE
MAY BE AN IMBALANCE IN THE OVERALL SCHEDULE OF COSTS AND
MANPOWER IN THE AREAS OF RADIOLOGICAL PROTECTION VERSUS
WASTE MANAGEMENT. IT IS A BASIC AND DIFFICULT QUESTION
TO ANSWER, DEPENDING ON VIEWPOINT AND APPROVED PROGRAM
DIRECTIONS. AS NEP PROGRAM CONTINUES GROW, SENIOR
LEVELS OF AGENCY TECHNICAL STAFF AND POSSIBLY SCIENTIFIC
ADVISORY COMMITTEE SHOULD ADDRESS THIS QUESTION IN LIGHT
OF DETAILED COMMENTS WHICH WE AND OTHER MEMBERS MAY
MAKE ON OVERALL PROGRAM.

(C.21-23, 30-31) AGENCY SHOULD BE ENCOURAGED ON
ATTENTION BEING GIVEN TO MAKING OCCUPATIONAL EXPOSURES
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AS LOW AS IS REASONABLY ACHIEVABLE.

(C.35-38) IN ACTIVITIES RELATING TO ESTABLISHMENT OF
AUTHORIZED LIMITS FOR RELEASES OF AIRBORNE AND LIQUID
RADIOACTIVE CONTAMINANTS INTO THE ENVIRONMENT, AGENCY
SHOULD CONSIDER WHETHER SUFFICIENT ATTENTION IS BEING
GIVEN TO WASTE DISPOSAL PRACTICES IN THIS CONTEXT;

MECHANISMS FOR RELEASES OF WASTE SHOULD BE CONSIDERED.

(C.43-54) THE AGENCY'S RENEWED INTEREST IN TRANSPORT QUESTIONS SHOULD BE COMMENDED BUT THIS ACTIVITY SHOULD BE FOLLOWED TO ASSURE THAT IT IS NOT OVERLY EMPHASIZED. IF THIS ACTIVITY SERVES MAINLY TO RECAPITULATE WHAT HAS BEEN DEVELOPED IN THE PAST WITHOUT GETTING SERIOUSLY INVOLVED IN IMPORTANT INTERNATIONAL SHIPPING PROBLEMS AND NEW PACKAGING DESIGNS, IT HAS BEEN SUGGESTED IT BE DROPPED. THE AGENCY SHOULD SERIOUSLY CONSIDER WHETHER TWO P-4'S ARE ABSOLUTELY NECESSARY AT THIS TIME OR COULD ONE POST BE DEFERRED UNTIL 1980.

(C.47) PROPOSED PROGRAM ON TRANSPORT CASKS APPEARS DUPLICATIVE OF IEA/NEA WORK AND THERE SHOULD BE COORDINATION WITH THOSE GROUPS.

(C.59, 62) CONSIDERATION SHOULD BE GIVEN TO A REVIEW BY A CONSULTATIVE GROUP TO DETERMINE THE USEFULNESS OF THESE STUDIES.

(C.64-65) THE INTERDEPARTMENTAL RADIATION PROTECTION COMMITTEE (IRPC) SERVES AN IMPORTANT FUNCTION BUT AN INDEPENDENT APPRAISAL OF ITS COMPOSITION AND APPROACH MAY BE APPROPRIATE AT THIS TIME TO ASSURE IT HAS NOT BECOME MORIBUND. IT APPEARS TO HAVE BECOME PROCEDURES-UNCLASSIFIED

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ORIENTED AND NOT SUFFICIENTLY SAFETY-ORIENTED. CONSIDERATION SHOULD BE GIVEN TO AUGMENTING THE STAFF OF THE IRPC AND THE RADIATION PROTECTION GROUP WITH APPROPRIATELY QUALIFIED NUCLEAR EXPERTS FROM SECTIONS OTHER THAN THE RADIOLOGICAL SAFETY SECTION ALONE.

(C.87) WE STRONGLY SUPPORT THE AGENCY IN ITS BROAD WASTE MANAGEMENT PROGRAMS, AND OTHER ADVANCED NUCLEAR STATES SHOULD BE ENCOURAGED TO PROVIDE INCREASED SUPPORT THESE SIGNIFICANT ACTIVITIES.

(C.88) PLANNED CODES AND GUIDES SHOULD BE GIVEN PRIORITY ATTENTION. WE RECOGNIZE THE U.S. WILL AGAIN BE CALLED ON FOR STRONG SUPPORT IN THE REGULATORY AREA BUT OTHER MEMBERS WITH EXPERIENCE IN THIS AREA MUST BE ENCOURAGED TO PROVIDE EXPERTISE. IN STUDYING THE PROBLEM AND DEVELOPING CODES, ATTENTION SHOULD BE GIVEN TO PRACTICES BEING FOLLOWED IN WASTE DISPOSAL ACTIVITIES IN RELATION TO INSTITUTIONAL REQUIREMENTS RATHER THAN CONCENTRATING ON THE HARDWARE INVOLVED.

(C.98) COMMENTS ON C.88 ARE APPLICABLE HERE. THE GUIDELINES ARE AIMED TOO MUCH AT HARDWARE AND NOT OVERALL APPROACHES. THE AGENCY SHOULD STRENGTHEN ITS

EFFORTS IN THIS AREA

(C.100) STUDIES RELATING TO SPENT FUEL STORAGE MERIT STRONG SUPPORT AND SHOULD BE ACCELERATED ON A PRIORITY BASIS. SPECIAL ATTENTION SHOULD BE GIVEN TO THE EFFORT TO ASSURE THAT IT DOESN'T BECOME BOGGED DOWN IN A REVIEW OF QUOTE PHILOSOPHIES UNQUOTE BUT CONCENTRATES ON PRACTICAL EXPERIENCE.

(C.102) CONSIDERATION SHOULD BE GIVEN TO WHETHER BITUMINIZATION IS AN ON-GOING PRACTICE FOR FIXING LOW- AND INTERMEDIATE- LEVEL WASTES OR SHOULD OTHER UNCLASSIFIED

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TECHNOLOGIES BE SERIOUSLY STUDIED.

WITH RESPECT TO INFORMATION THAT WILL BE DEVELOPED BY INFCE ON WASTE HANDLING PRACTICES IN MEMBER STATES, QUESTION RAISED WHETHER AGENCY PLANNING, AND DOES IT HAVE ADEQUATE STAFF, TO ANALYZE DATA AND MODIFY ITS OWN PROGRAM AS APPROPRIATE.

(C.110) THE AGENCY SHOULD CONSIDER TO WHAT EXTENT IT MAY WISH OR NEED TO BECOME INVOLVED WITH THE LOCAL/ REGIONAL/NATIONAL IMPLICATIONS OF ALL ENERGY SYSTEMS RELEASES FROM INDIVIDUAL PLANTS IN RELATION TO NUCLEAR RELEASES ALONE.

(C.114) AGENCY SHOULD BE ENCOURAGED TO EXPAND ITS EFFORT IN THIS IMPORTANT ACTIVITY.

(C.118) ENVIRONMENTAL ASSESSMENT PROGRAM DESERVES STRONG SUPPORT.

(C.132-133) OBJECTIVES ARE WELL STATED FOR ONE OF AGENCY'S MOST SIGNIFICANT ACTIVITIES. COMPLIMENT AGENCY ON ACCOMPLISHMENTS BUT NOTE THAT THIS IS AREA REQUIRING INCREASED ATTENTION WITH FINANCIAL AND, MORE IMPORTANT, MANPOWER SUPPORT BY THE MEMBERS. THERE IS A NEED TO EMPHASIZE HELPING MORE ADVANCED DEVELOPING COUNTRIES ASSIMILATE AND APPLY THE IAEA CODES AND GUIDES AND DEVELOP SOUND INDIGENOUS REGULATORY PROGRAMS. THERE IS A NEED FOR AN AGENCY PLAN OR PROGRAM DEMONSTRATING HOW VARIOUS PIECES (NUSS, TA PROGRAM, SAFETY MISSIONS, INFCIRC 18 ETC.) WORK TOGETHER TO HELP SUCH COUNTRIES BUILD AND OPERATE SAFE AND DEPENDABLE NUCLEAR POWER PLANTS, DESPITE THEIR INITIAL LACK OF EXPERIENCE.
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(C.134) VERY SERIOUS CONSIDERATION MUST BE GIVEN TO INCREASING THE NUCLEAR SAFETY STAFF IN ORDER TO PROVIDE THE IMPORTANT INDEPENDENT ADVICE NEEDED BY MEMBER STATES.

(C.138-141) AGENCY SHOULD BE COMMENDED FOR STEADY PROGRESS IN IMPORTANT WORK ON NUCLEAR SAFETY STANDARDS (NUSS). THE 1982 TARGET FOR COMPLETION MAY BE OVERLY OPTIMISTIC CONSIDERING TENDENCY FOR LIST OF SAFETY GUIDE TOPICS TO GROW (SOME SOURCES SAY PERHAPS ANOTHER 20 SAFETY GUIDES MAY BE PROPOSED BY DESIGN TRC ALONE). HOWEVER, WE WOULD LIKE TO SEE MAJOR PART OF NUSS EFFORT COMPLETED IN NEXT 3-4 YEARS. REVISIONS AND SUPPLEMENTS MUST BE PHASED IN JUDICIOUSLY AND AT SUCH TIME AS OTHER NUSS WORKLOAD IS IN DECLINE. THE PROCESS MUST NOT BE NEEDLESSLY BE PERPETUATED. RESOURCES SHOULD BE DIRECTED TO OTHER IMPORTANT SAFETY AND REGULATORY WORK. MANPOWER WHICH BECOMES AVAILABLE IN NUCLEAR SAFETY AND ENVIRON. PROTECTION DIVISION WOULD BE APPLIED TO PROVIDING REGULATORY AND SAFETY ASSISTANCE TO LDC'S ATTEMPTING TO IMPLEMENT THE AGENCY'S CODES AND GUIDES AS WELL AS UPDATING THESE DOCUMENTS. AGENCY SHOULD RESTRAIN ITSELF IN AREA OF SAFETY CODES AND GUIDES FOR ADVANCED REACTOR TYPES AND FOR NUCLEAR FUEL CYCLE FACILITIES. THIS WOULD BE A GOOD OBJECTIVE PROVIDED THERE IS A REAL NEED (I.E., THE TECHNOLOGY IS SUFFICIENTLY MATURE AND CODES/GUIDES WOULD BE APPLICABLE FOR USE IN A CROSS-SECTION OF MEMBER STATES).

(C.144) STRONG SUPPORT SHOULD BE EXPRESSED FOR THIS ACTIVITY, WITH UNDERSTANDING THAT SOME RESOURCES WILL ALSO BE MADE AVAILABLE FOR THE VERY IMPORTANT FUNCTION OF ASSISTING MEMBERS IN DEVELOPMENT OF THEIR OWN NATIONAL REGULATORY PROGRAMS THROUGH DIRECT, ON-SITE ADVISORY MISSIONS.
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(C.146-149) VERY SIGNIFICANT ACTIVITY. AGENCY MUST INCREASE ITS STAFF EFFORT INVOLVED IN ASSESSING SAFETY OF AGENCY-SUPPORTED PROJECTS AND IN PROVIDING DIRECT ADVICE TO MEMBER STATES REGARDING SUCH PROJECTS (AND EQUIVALENT ASSESSMENT AND ASSISTANCE, TO EXTENT POSSIBLE, IN CONNECTION WITH ALL NUCLEAR POWER PROJECTS WITH ANY AGENCY INVOLVEMENT).

(C.153) COMMENDABLE ACTIVITIES WHICH FILL IMPORTANT NEED.

8. LIFE SCIENCES

(F.5) INCREASED COST OF DOLS 314,000 FOR EQUIPMENT AND MOVE TO NEW LABORATORY SEEMS HIGH AND SHOULD BE REVIEWED.

(F.167) THESE PROPOSED ACTIVITIES SHOULD BE CAREFULLY COORDINATED WITH OTHER INTERNATIONAL BODIES AND NATIONAL AUTHORITIES. THE U.S. IS PLANNING AN INTERNATIONAL INITIATIVE IN THIS FIELD.

9. PHYSICAL SCIENCES

(G.5) INCREASE OF DOLS 100,000 FOR PRINTING SEEMS HIGH AND IS NOT EXPLAINED.

(G.7 AND 150) ADDITION OF FIVE STAFF MEMBERS FOR NUCLEAR DATA SEEMS HIGH. WHILE NEEDS MAY BE EXPANDING, GREATER EFFICIENCY OF OPERATION SHOULD BE POSSIBLE.

(G.40 AND 45) THE U.S. BELIEVES IT IS TIMELY TO HOLD A SIMILAR INTERNATIONAL CONFERENCE AND WILL EXTEND UNCLASSIFIED

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AN OFFER SHORTLY TO HOST THE NEXT CONFERENCE IN 1980.

(G.43-44) THE U.S. SUPPORTS INCREASED INTERNATIONAL COOPERATION IN FUSION ENERGY RESEARCH AS VITAL TO SUCCESS IN FUSION DEVELOPMENT. MANY ADVANTAGES ARE TO BE GAINED FROM INTERNATIONALIZATION OF A MAJOR R&D PROGRAM. JOINT RESEARCH CAN BE SHARED AMONG PARTICIPATING NATIONS AND THE RESULTS SHARED BY ALL.

(G.47) ADDITIONAL EFFORT IN FUSION CAN BE USED TO FURTHER IMPROVE COORDINATION IN THE DESIGN AND USE OF PRESENT AND CURRENTLY PLANNED LARGE MACHINES. A TOO RAPID MOVEMENT TOWARDS LARGE-SCALE FUSION POWER PLANTS MAY PROVE COUNTERPRODUCTIVE. THIS PROPOSAL NEEDS FURTHER SERIOUS EXAMINATION IN AN OBJECTIVE MANNER.

(G.48) TECHNICAL COMMITTEE MEETINGS CAN BE USED TO ADVANTAGE TO REVIEW PROGRAM STATUS, ASSESS NEEDS AND RECOMMEND FUTURE COORDINATED DEVELOPMENT EFFORTS.

(G.50) AGENCY'S ACTIVITIES IN FUSION AREA SHOULD CONTINUE TO BE COORDINATED WITH IEA.

(G.71) THE U.S. SUPPORTS THIS PROGRAM WHICH CAN DEMONSTRATE PRACTICAL APPLICATIONS OF NUCLEAR ENERGY OF INTEREST TO ALL MEMBER STATES.

(G.99-102) SUPPORT SHOULD BE EXPRESSED FOR THE AGENCY'S CONTINUING WORK RELATING TO ISOTOPE HYDROLOGY.

(G.124-128) THE AGENCY SHOULD BE ENCOURAGED TO PURSUE ITS EFFORTS IN THESE ACTIVITIES.

(G.139) WE SUPPORT PLANS FOR THIS INTERNATIONAL

CONFERENCE AND WILL CO-HOST IT IN 1979.

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10. TRIESTE CENTER

(I.2) THE DOLS 40,000 INCREASE FOR PRINTING SERVICES SEEMS HIGH AND SHOULD BE REEXAMINED.

11. MONACO LABORATORY

(J.7-26) PLANNED PROGRAM APPEARS IN PHASE WITH R&D IN U.S. AND SHOULD FURTHER INTERNATIONAL SCIENTIFIC UNDERSTANDING IN AREAS COVERED BY IT. CHEMICAL REFERENCE ANALYTICAL METHODS AND INTERCALIBRATION PROGRAM IS PARTICULARLY WORTHWHILE. SUPPORT 1980 STAFF EXPANSION FOR WORK ON TRANSURANIC BIOGEOCHEMISTRY AND TRACE METAL MEASUREMENT TECHNIQUES.

WE SHOULD COMMENT FAVORABLY ON RESULTS OF WORK AT LABORATORY IN VIEW OF ITS LIMITED STAFF AND FACILITIES. CONTINUED SUPPORT BY UNEP AND UNESCO SHOULD BE NOTED.

12. SAFEGUARDS

(K.1-10) WE CONCUR IN MISSION PERCEPTION PARA. 10 REFTEL. PROJECTED GROWTH OF STAFFING AND FUNDING IS LARGE AND RAISES CONCERN WHETHER THESE PROJECTIONS MAY TAX THE CAPABILITIES OF THE SYSTEM TO ABSORB THE NEW POSITIONS AND PROGRAMS. MANY FEEL, HOWEVER, THAT AGENCY MUST AGGRESSIVELY BUILD UP ITS PROGRAM THROUGH NECESSARY STAFFING AND RELATED TRAINING PROGRAMS TO ASSURE THAT IT CAN ABSORB THE STAFF REQUIRED FOR IT TO SUCCESSFULLY UNDERTAKE ITS KEY RESPONSIBILITIES. THIS PROGRAM MUST BE CAREFULLY MONITORED TO ASSURE PROPER USE OF FUNDS AND PERSONNEL.

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TABLE K.4 INCREASE OF ONLY ONE PROFESSIONAL PER YEAR IN STANDARDIZATION PROGRAM IS OF CONCERN. ADDITIONAL STAFF MAY BE REQUIRED FOR SENSITIVE TASK OF RENEGOTIATING PREVIOUS SAFEGUARDS AGREEMENTS, SUBSIDIARY ARRANGEMENTS, FACILITY ATTACHMENTS, AND TO UPGRADE REQUIREMENTS IN GENERAL.

(K.20-29) SERIOUS CONSIDERATION SHOULD BE GIVEN TO IMPROVING MEANS FOR ASSESSING QUALITY AND EFFECTIVENESS OF INSPECTION ACTIVITIES, TAKING INTO ACCOUNT THE RAPIDLY GROWING NUMBER OF FACILITIES TO BE INSPECTED

AND OF INSPECTORS. ASSURANCE OF INSPECTION QUALITY IS ESSENTIAL TO OVERALL SAFEGUARDS PERFORMANCE. TO SOME EXTENT, MONITORING OF SAFEGUARDS EFFECTIVENESS BY SAFEGUARDS EVALUATION GROUP WILL CONTRIBUTE TO ASSURANCE OF QUALITY PERFORMANCE BUT ITS 1979 TRAVEL BUDGET OF DOLS 3,000 AND DOLS 4,000 FOR 1980 APPEAR INDICATE ITS EFFORTS WILL NOT REPEAT NOT INCLUDE FIELD TESTING AND AUDITS. PROGRAM EXPANSION IN THESE AREAS IS RECOMMENDED.

(K.63) PROGRESS IN DEVELOPING INTERNATIONAL STANDARDS FOR SAFEGUARDS PERFORMANCE, INCLUDING MATERIAL MEASUREMENTS, HAS BEEN SLOW, AND A CONCERTED EFFORT WILL BE NECESSARY TO ACHIEVE ANY DEGREE OF SUCCESS. ADDITIONAL RESOURCES IN THIS AREA MAY BE NECESSARY.

13. INFORMATION AND TECHNICAL SERVICES

(L.4) A CAREFUL EXAMINATION SHOULD BE MADE OF THE DOLS 1,199,000 INCREASE FOR COMPUTER SERVICES. WE RECOGNIZE THE IMPORTANCE OF THIS OPERATION AND THE GROWING DEMANDS ON IT BUT SUGGEST A REVIEW OF THIS ITEM.

AN INCREASE OF DOLS 402,000 FOR INIS DATA PROCESSING
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IS ABOUT AN 80 PERCENT INCREASE. THIS ITEM SHOULD BE CAREFULLY REVIEWED.

(L.14) THE 1800 SUBSCRIPTIONS TO ATOMINDEX SEEMS LOW AND THE AGENCY SHOULD CONSIDER A BROAD SALES PROMOTION EFFORT.

(L.20) ON-LINE ACCESS TO INIS NEEDS TO BE CAREFULLY EVALUATED BEFORE FURTHER COMMITMENTS ARE MADE.

(L.72) WE SHOULD SUPPORT AN EARLY STUDY AS TO WHETHER THE ATOMIC ENERGY REVIEW IS A USEFUL PUBLICATION WHICH SHOULD BE CONTINUED.

14. ANNEX II

REPEATED QUESTION ARISES WHETHER NUMBER OF SPECIALIZED TECHNICAL MEETINGS CANNOT BE REDUCED TO EFFECT ECONOMIES FOR IAEA AND TO SAVE TIME AND EFFORT OF EXPERTS FROM A NUMBER OF MEMBER STATES. SPECIAL ATTENTION SHOULD BE GIVEN TO THOSE SITUATIONS WHEREIN TECHNICAL COMMITTEES AND WORKING GROUPS PERPETUATE THEMSELVES BY RECOMMENDING ANNUAL MEETINGS. EVALUATIONS COULD BE MADE OF THE INTERNATIONAL WORKING GROUPS TO DETERMINE WHETHER THEY CONTINUE TO HAVE ANY USEFULNESS.

AGENCY SHOULD CONSIDER NEED TO CONVENE IN 1979 AND/OR 1980 ADVISORY GROUPS ON CONTAINMENT AND SURVEILLANCE, REPROCESSING, AND ENRICHMENT TO CONTINUE WORK OF EARLIER MEETINGS ON THESE MAJOR SUBJECTS.

WE SHOULD SUGGEST CONSIDERATION OF AN ADVISORY GROUP TO REVIEW INFCIRC 153 IN LIGHT OF CHANGING POLICIES IN UNCLASSIFIED

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THE SAFEGUARDS AREA.

15. ANNEX V

RE TABLE 2 (SAFEGUARDS STAFFING), WE NOTE ONLY THREE NEW PROFESSIONALS EACH FOR DEVELOPMENT AND TECHNICAL SUPPORT AND INFORMATION TREATMENT. WE QUESTION WHETHER THIS SUFFICIENT SINCE U.S. COST-FREE EXPERTS ON ASSIGNMENT TO THESE DIVISIONS NEED ULTIMATELY TO BE REPLACED BY REGULAR STAFF MEMBERS FOR WHICH ADDITIONAL SLOTS SHOULD BE ESTABLISHED.

PROVISION SHOULD ALSO BE MADE FOR FULL-TIME SAFEGUARDS OFFICER FOR TRAINING INSPECTORS. AGENCY HAS CONSIDERED THIS FOR SEVERAL YEARS. HAS THE TIME ARRIVED FOR ACTION?

CONSIDERATION SHOULD BE GIVEN TO ADDITIONAL GS POSTS IN 1979 IN DIVISION OF DEVELOPMENT AND TECHNICAL SUPPORT FOR BETTER UTILIZATION OF INSTRUMENTS IN NDA AND CONTAINMENT/SURVEILLANCE SYSTEMS.

16. ADDITIONAL DETAILED COMMENTS MAY FOLLOW FOR TRANSMISSION TO AGENCY STAFF AS APPROPRIATE. CHRISTOPHER

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